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UTILITY PATENT APPLICATION

Attorr	ney Docket No.	8021-164 (SS-17835-US) Sung-Taeg Kang					
Title	NON-VOLATII	LE MEMORY DEVICE HAVING.					
		EV/220/09722115					

IKA	NSWITTAL	Titl	e l¹	ON-VOLATILE N	1EMOK Y	DEV	ICE HAVING	
(Only for new nonprovision	nal applications under 37 CFR 1.53(b))	Ex	Express Mail Label No. EV329488733US					
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1.	[Total Pages 17] It set forth below) of the invention te to Related Applications arding Fed sponsored R & D equence listing, a table, program listing appendix the Invention of the Invention on of the Drawings (if filed) iption Disclosure		(if a a. [b. s	CD-ROM or CD-R Computer Prograr Cleotide and/or Amino Capplicable, all necessa Computer Reada Specification Sequence i.	in (Appendia Acid Sequency) able Form (see Listing of or CD-R (2 sying identity assignee) on Docume oosure PTO-1449 indment Postcard (Minimaly item of Priority Do rtification us icant must	e, largy x) CRF) n: copie copie	e table or submission es); or pove copies DN PARTS document(s)) Power of Attorney applicable) Copies of IDS Citations 503) nt(s)	
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Customer Number or Bar C	ode Label (Insert Customer No. or Atlact	n bar code	label he	or 🗸	Correspor	ndence a	ddress below	
Name	Frank Chau							
	F. CHAU & ASSOCIATES, LLP							
Address	1900 Hempstead Turnpike, Suite 501							
City	East Meadow	Sta	te	New York	Zip Code 11554		11554	
Country	U.S.A	elepho	ne	(516) 357-0091	F	эх	(516) 357-0092	
Name (Print/Type)	Michael F. Morano		Rea	istration No. (Attorn	ey/Agent)	44,9	52	
Signature	Michael F. Moras		- 3		Date	July	24, 2003	
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for FY		First Named Inventor Sung-Taeg Kang										
Effective 01/01/2003. Patent fees are	subject to annual revision.		Examiner Name									
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SUBMITTED BY								(Complete (if	applicable	θ)		
Name (Print/Type) Michael F. Mc	orano 🛕			ation No	. 44	,952		Telephone 5	16-357	-0091		
(1000)	12. mora	~	(Attorne)	(Adent)				Date	July 24	, 2003		
Signature VVI (Control of the Control of the Contro	<u> </u>			مالطيي	Crod	it card in	form	ation should				

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This collection of information is required by 37 CFR 1.17 and 1.27. The information is required to obtain or retain a benefit by the public which is to file (and by the Inis collection of information is required by 37 CFR 1.17 and 1.27. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Washington, DC 20231.

Atty. Docket No. 8021-164 (SS-17835-US)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

UTILITY APPLICATION FEE TRANSMITTAL

Sir:							
Transmitted	herewith for filing is the patent application of						
Inventor(s):	Sung-Taeg KANG						
For:	NON-VOLATILE MEMORY DEVICE HAVING IMPROVED PROGRAMMING AND ERASING CHARACTERISTICS AND METHOD OF FABRICATING THE SAME						
Enclosed are	e :						
[X] <u>12</u>	page(s) of specification						
[X] <u>1</u>	page(s) of Abstract						
[X] <u>4</u>	page(s) of claims						
[X] <u>4</u>	sheets of drawings [X] formal [] informal						
[X] <u>2</u>	page(s) of Declaration and Power of Attorney						
[X] An Assig	nment of the invention to <u>Samsung Electronics Co., Ltd.</u>						
	CERTIFICATION UNDER 37 C.F.R. § 1.10						
Service on this date	is New Application Transmittal and the documents referred to as enclosed therein are being deposited with the United States Postal <u>July 24, 2003</u> in an envelope as "Express Mail Post Office to Addressee" Mail Label Number <u>EV329488733US</u> addressed to:						

Michael F. Morano (Type or print name of person mailing paper)

Mulul 7. Munu
(Signature of person mailing paper)

()	[] This application claims the benefit under 35 U.S.C §119(e) of U.S. Provisional Application(s) No(s).:										
	APPLICATIO	ON NO(S).:		F	ILING DATE						
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	ed Statement of ' r 37 C.F.R. § 1.9(_			R. § 1.27. Reduc	ed fees					

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- [] The amount of \$40.00 for recording the attached Assignment is enclosed as a separate check.
- [X] Please charge fee of \$40.00 for recording the attached assignment by Credit Card Payment Form PTO-2038 enclosed herewith.
- [X] Please charge fee of \$786.00 to cover the filing fee by Credit Card Payment Form PTO-2038 enclosed herewith.
- [X] Please charge any deficiency as well as any other fee(s) which may become due under 37 C.F.R. § 1.16 and 1.17, at any time during the pendency of this application, or credit any overpayment of such fee(s) to Deposit Account No. 50-0679. Also, in the event any extensions of time for responding are required for the pending application(s), please treat this paper as a petition to extend the time as required and charge Deposit Account No. 50-0679 therefor. TWO (2) COPIES OF THIS SHEET ARE ENCLOSED.

Date: July 24, 2003

Michael F. Morano Reg. No. 44,952

F. CHAU & ASSOCIATES, LLP Suite 501 1900 Hempstead Turnpike East Meadow, New York 11554 Tel. No. (516) 357-0091 Fax. (516) 357-0092